

REMARKS

The present amendment is submitted in response to the Office Action dated December 17, 2002, which set a three-month period for response, making this amendment due by March 17, 2003.

Claims 1-9 are pending in this application.

In the Office Action, claims 1-9 were rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,796,441 to Cyman et al.

The Applicant respectfully disagrees that the Cyman patent renders obvious the subject matter of the present invention as defined in claims 1-9 of the present application.

The patent to Cyman discloses an image processing system, which is used for printing with high resolution printers. Because these types of printers require substantial data input, a cache memory (800) is used for saving a graphics library to reduce the printing and data transportation time. If the graphics information is to be printed, the graphics data is transported from cache memory to the printer. The graphics themselves (see Figure 2 of Cyman) are to be placed in the document and are independent of each other. The graphics have a fixed position in the document. Even if there are bar charts and pie charts that are produced "on the fly", this means only that the actual charts graphic is produced in real time, that is, in printing time. Cyman provides no suggestion or hint that many charts are saved in the cache memory or that a "growing chart" may be displayed in the display module, for example.

In contrast to the Cyman patent, in the present invention, the display sequence of object representations along a path curve on a display is displayed in correspondingly memorized bitmaps, which represent the various objects along the path curve. With the method of the present invention, it is possible to display this type of sequence very quickly on a display, without mathematical operation to determine pixel data. The Cyman patent provides no disclosure or suggestion that the pictures are displayed on a path curve on a display, since the cache memory is used for fast success to image data for fast printing. However, Cyman does not provide even a hint of using the cache memory for displaying of a sequence of images (like a motion picture, which is taught in the present invention).

Therefore, the present invention is not obvious over the Cyman reference.

With regard to the dependent claims, it is feature of claim 4 that "the spatial difference between adjacent objects representations along the path curve" is substantially smaller than the applicable object representations. Because there is no suggestion of a path curve for displaying objects along this curve in the Cyman patent, claim 4 is also patentable over this reference.

In addition, claim 5 is also not obvious, because it defines a solution to get an intermediate image between two images, which are pre-stored bitmaps. Cyman, again, provides no suggestion to obtain such an object located between two object representations along a path curve via interpolations between the corresponding pixels. Therefore, claim 5 is also patentable over Cyman.

The Applicant has added new dependent claim 10, which depends from claim 9, and which defines that the pointer is speedometer pointer, wherein the pointer bitmap corresponding to the instantaneous speed that is read and displayed at a given time. Support for new claim 10 can be found in the specification on page 7, lines 9-11. Cyman provides no suggestion that the image is a pointer of a speedometer in a motor vehicle.

The Applicant has also added new dependent claim 11, which defines that the associated pre-calculated and pre-stored background image is a corresponding speed scale, as described in the specification on page 7, lines 12-14.

For the reasons set forth above, the Applicant respectfully submit that claim 1 -9, along with new dependent claims 10 and 11, are patentable over the cited patent to Cyman. The Applicant further requests withdrawal of the rejection under 35 U.S.C. 103 and reconsideration of the application as herein amended.

It is noted that the Information Disclosure Statement filed on October 13, 2000 has not been acknowledged by the Examiner. Acknowledgment of the Information Disclosure Statement is respectfully requested.

In light of the foregoing arguments in support of patentability, the Applicant respectfully submits that this application stands in condition for allowance. Action to this end is courteously solicited.

Should the Examiner have any further comments or suggestions, the undersigned would very much welcome a telephone call in order to discuss appropriate claim language that will place the application into condition for allowance.

Respectfully submitted,



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